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## Weight Up Charts

Initial Mud Weight (ppg)	MUD WEIGHT ADJUSTMENT WITH BARITE OR WATER																			
	Desired Mud Weight (ppg)																			
9.5	29	59	90	122	156	192	229	267	307	350	394	441	490	541	596	653	714	778		
10.0	43		30	61	94	128	163	200	239	280	322	367	414	464	516	571	630	691		
10.5	86	30		31	63	96	131	167	205	245	287	331	377	425	476	530	588	648		
11.0	129	60	23		31	64	98	134	171	210	251	294	339	387	437	490	546	605		
11.5	172	90	46	19		32	65	100	137	175	215	257	301	348	397	449	504	562		
12.0	216	120	69	38	16		33	67	102	140	179	220	264	309	357	408	462	518		
12.5	259	151	93	56	32	14		33	68	105	143	184	226	271	318	367	420	475		
13.0	302	181	116	75	47	27	12		70	107	147	188	232	278	326	378	432			
13.5	345	211	139	94	63	41	24	11		35	72	110	151	193	238	286	336	389		
14.0	388	241	162	113	79	55	36	21	10		36	73	113	155	199	245	294	346		
14.5	431	271	185	132	95	68	48	32	19	9		37	75	116	159	204	252	302		
15.0	474	301	208	150	111	82	60	43	29	18	8		38	77	119	163	210	259		
15.5	517	331	231	169	127	96	72	54	39	27	16	8		39	79	122	168	216		
16.0	560	361	255	188	142	109	84	64	48	35	24	15	7		40	82	126	173		
16.5	603	392	278	207	158	123	96	75	58	44	32	23	14	7		41	84	130		
17.0	647	422	301	226	174	137	108	86	68	53	41	30	21	13	6		42	86		
17.5	690	452	324	244	190	150	120	97	78	62	49	38	28	20	12	6		43		
18.0	733	482	347	263	206	164	132	107	87	71	57	45	35	26	18	12	5			

The lower left half of this table shows the number of barrels of water which must be added to 100 bbls of mud to produce the desired weight.  
REDUCTIONS: Example: To reduce 11.0 ppg to 9.5 ppg, 129 bbls of water must be added for every 100 bbls of mud in the system.

The upper right half of this table shows the number of (100 lb) sacks of Barite that must be added to 100 bbls of mud to produce the desired weight.  
INCREASES: Example: To raise 11.0 ppg to 14.5 ppg, 251 sacks of Barite must be added for every 100 bbls of mud in the system.

ADDITIONAL MUD WEIGHT IN PPG TO KILL THE WELL								
Depth (ft)	Shut In Drill Pipe Pressure (psi)							
	200	400	600	800	1000	1200	1400	1600
5,000	0.8	1.5	2.3	3.1	3.9	4.6	5.38	6.15
6,000	0.6	1.3	1.9	2.6	3.2	3.9	4.49	5.13
7,000	0.6	1.1	1.7	2.2	2.8	3.3	3.85	4.40
8,000	0.5	1.0	1.5	1.9	2.4	2.9	3.37	3.85
9,000	0.4	0.9	1.3	1.7	2.1	2.6	2.99	3.42
10,000	0.4	0.8	1.2	1.5	1.9	2.3	2.69	3.08
11,000	0.4	0.7	1.1	1.4	1.8	2.1	2.45	2.80
12,000	0.3	0.6	1.0	1.3	1.6	1.9	2.24	2.56
13,000	0.3	0.6	0.9	1.2	1.5	1.8	2.07	2.37
14,000	0.3	0.6	0.8	1.1	1.4	1.7	1.92	2.20
15,000	0.3	0.5	0.8	1.0	1.3	1.5	1.79	2.05
16,000	0.2	0.5	0.7	1.0	1.2	1.4	1.68	1.92
17,000	0.2	0.5	0.7	0.9	1.1	1.4	1.58	1.81
18,000	0.2	0.4	0.6	0.9	1.1	1.3	1.50	1.71